JUN 1 0 2005 48

5

10

20

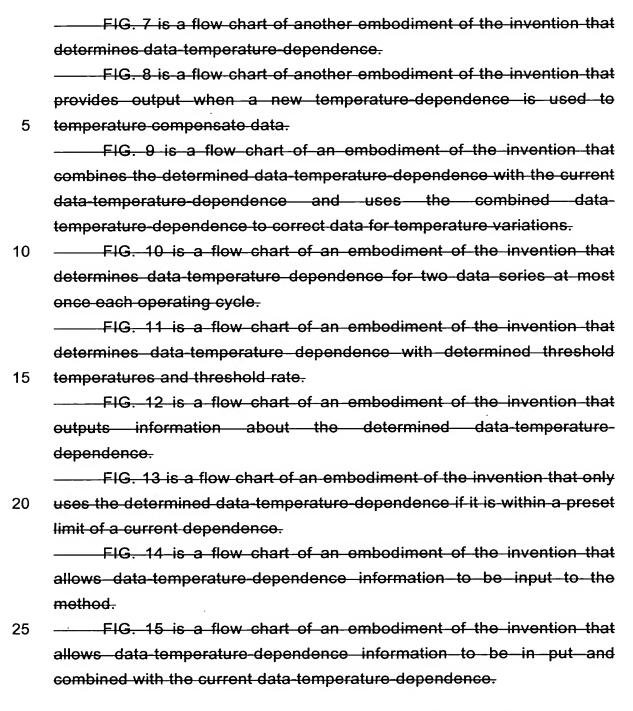
Another invention feature is that an externally inputted datatemperature-dependence can be used to correct data by being combined with a current data-temperature-dependence and that combination replacing the current data-temperature-dependence..

Another invention feature is that an externally inputted datatemperature-dependence can not be used to correct data by not replacing a current data-temperature dependence because a property of the externally inputted dependence is not within at least one limit.

Another invention feature is that if a data-temperature-dependence is externally inputted, the method can further comprise receiving, as an input, the portion of fluid with that dependence, and using that input with the externally inputted data-temperature-dependence for data temperature compensation.

BRIEF DESCRIPTION OF THE FIGURES

- 15 FIG. 1 is representative graph illustrating variations in engine oil temperature for an on-highway diesel engine during one operating cycle.
 - FIG. 2 is representative graph illustrating the temperature dependence of a diesel-engine-oil's electrical-impedence at three times in the engine-oil's useful life.
 - FIG. 3 is representative graph illustrating the temperature dependence of a diesel-engine-oil's viscosity at three times in the engine-oil's useful life.
- FIG. 4 is a flow chart of an invention embodiment that 25 determines data-temperature-dependence when fluid temperature increases.
 - FIG. 5 is a flow chart of an embodiment of the invention that determines data-temperature-dependence when fluid temperature decreases.
- 30 FIG. 6 is a flow chart of an embodiment of the invention that determines data-temperature-dependence when fluid temperature either increases or decreases.



DETAILED DESCRIPTION OF THE INVENTION

The invention relates to a cost-effective method for compensating data relevant to the quality and/or condition of a fluid while in use in a device or process. For the purposes of illustration, the following figures are shown and described.

30